Fig. 1

Microsoft Access - [DIE : Table]

File Edit View Insert Tools Window Help

Field Name	Data Type	Description
MsgRecNum	AutoNumber	A unique message record number
MADT	Date/Time	Message arrival date and time
MDDate	Date/Time	Message to be delivered on this date
MDTime	Date/Time	Message to be delivered at this time
MDTZone	Text	Message delivery worldwide time zone
S_Directory	Text	Directory name where detailed information about S_UserId is found
S_UserID	Text	Sender's userid (encrypted)
S_Password	Text	Sender's password (encrypted)
S_AuthCode	Text	Sender's authorization code (encrypted)
S_email	Text	Sender's Regular e-mail
S_MP	Text	Sender's Mobile Phone
S_HP	Text	Sender's Home Phone
S_WP	Text	Sender's Work Phone
S_PP	Text	Sender's Pager Pin
S_PMN	Text	Sender's Pager Modem Number
S_PE	Text	Sender's Pager e-mail
S_FN	Text	Sender's Fax Number
S_PPEM	Text	Sender's Palm Pilot e-mail
S_FD1	Text	Sender's Future Messaging Device 1
S_FD2	Text	Sender's Future Messaging Device 2
S_FD3	Text	Sender's Future Messaging Device 3
D_UserId	Text	Destination UserId
D_Directory	Text	Directory name where detailed information about D_UserId is found
D_email	Text	Destination Regular e-mail
D_MP	Text	Destination Mobile Phone
D_HP	Text	Destination Home Phone
D_WP	Text	Destination Work Phone
D_PP	Text	Destination Pager Pin
D_PMN	Text	Destination Pager Modem Number
D_PE	Text	Destination Pager e-mail
D_FN	Text	Destination Fax Number
D_PPEM	Text	Destination Palm Pilot e-mail
D_FD1	Text	Destination Future Messaging Device 1
D_FD2	Text	Destination Future Messaging Device 2
D_FD3	Text	Destination Future Messaging Device 3
SO_email	Text	Status of message sent via e-mail
SO_MP	Text	Status of message sent to mobile phone

Field Properties

General | Lookup

Field Size	Long Integer
New Values	Increment
Format	
Caption	
Indexed	Yes (No Duplicates)

The field description is optional. It helps you describe the field and is also displayed in the status bar when you select this field on a form. Press F1 for help on descriptions.

Design view. F6 = Switch panes. F1 = Help

Microsoft Access - [DIE : Table]

File Edit View Insert Tools Window Help

Field Name	Data Type	Description
SO_HP	Text	Status of message sent to home phone
SO_WP	Text	Status of message sent to work phone
SO_PGR	Text	Status of message sent to pager
SO_Fax	Text	Status of message sent to fax machine
SO_PPEM	Text	Status of message sent to palm pilot
SO_FD1	Text	Status of message sent to future device
SO_FD2	Text	Status of message sent to future device
SO_FD3	Text	Status of message sent to future device
StartingVoiceSound	Text	Initial Voice or sound file
StandardMsg	Text	Standard (fixed) Text-to-speech message
TextMsg	Text	Message
VoiceMsg	Text	Voice Recorded Message
SoundMsg	Text	Sound part of the message
FormattedMsg	Text	Formatted message file such as MS WORD, HTML, etc formatted files
GraphicsMsg	Text	Graphics part of the message
VideoMsg	Text	Video part of the message
FutureMsg1	Text	Message for futuremessaging device 1
FutureMsg2	Text	Message for futuremessaging device 2
FutureMsg3	Text	Message for futuremessaging device 3
EndingVoiceSound	Text	Initial Vox file
SDZone	Text	Scheduled Destination Zone
SDDT	Text	Scheduled Destination Date and Time
Priority	Number	Priority
Command	Text	Command text
CommandHost	Text	Command to execute on this host
AutoEscalation	Number	Automatic Escalation. 0=No, 1=Yes, 2=Send to all messaging devices at once
AutoEscalationInterval	Number	Attempt escalation in these many seconds
AutoEscalationRetries	Number	Retry escalation these many times

Field Properties

General | Lookup

The field description is optional. It helps you describe the field and is also displayed in the status bar when you select this field on a form. Press F1 for help on descriptions.

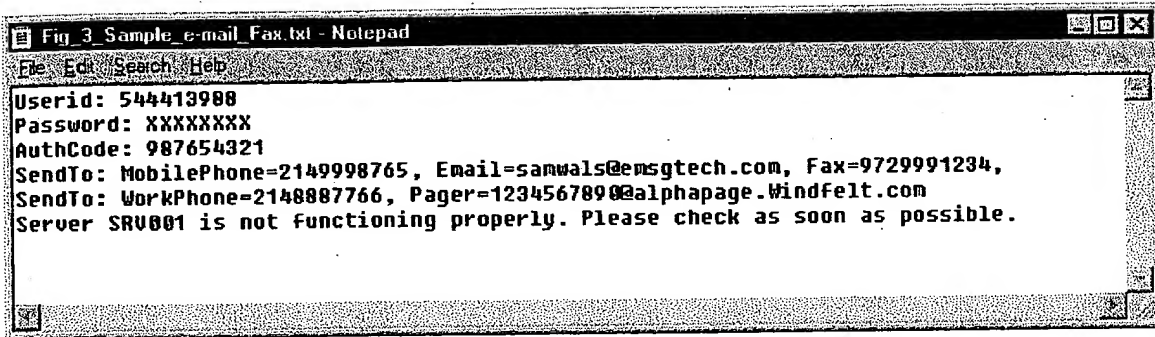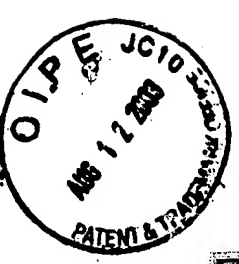Design view. F6 = Switch panes. F1 = Help

FIG. 2

```
Fig_3_Sample_e-mail_Fax.txt - Notepad
File  Edit  Search  Help
Userid: 544413988
Password: XXXXXXX
AuthCode: 987654321
SendTo: MobilePhone=2149998765, Email=samwals@emsgtech.com, Fax=9729991234,
SendTo: WorkPhone=2148887766, Pager=1234567890@alphapage.Windfelt.com
Server SRV001 is not functioning properly. Please check as soon as possible.
```

FIG. 3

```
Fig_4_Sample_e-mail_Fax_Received.txt - Notepad
File  Edit  Search  Help

To: samwals@emsgtech.com
From: Electronic Messaging Engines
Subject: An important alert

When responding back to this message via the Remote Command Execution (RCE), please
use the following message record number: 76884533

This message was sent to:
MobilePhone=2149998765, Email=samwals@emsgtech.com, Fax=9729991234,
WorkPhone=2148887766, Pager=1234567890@alphapage.Windfelt.com

Server SRV001 is not functioning properly. Please check as soon as possible
```
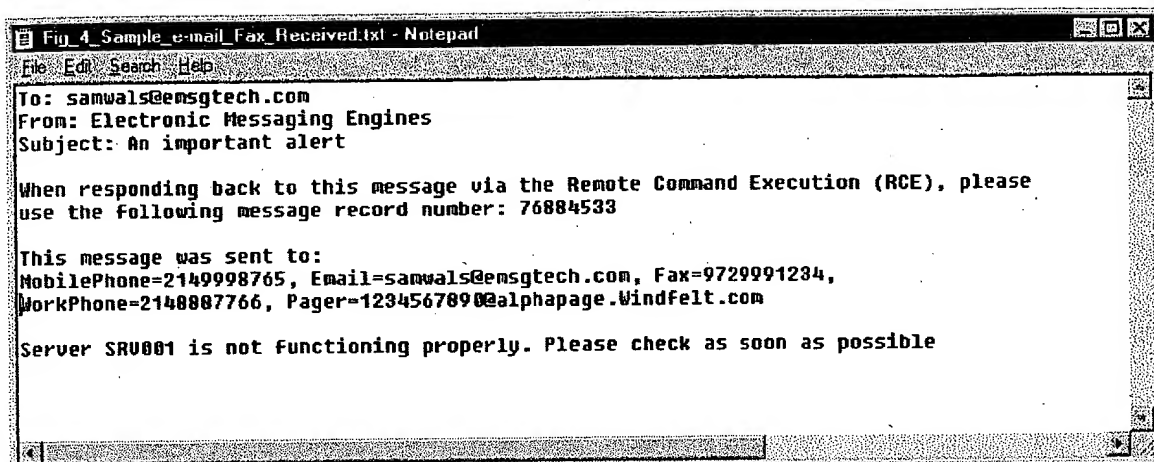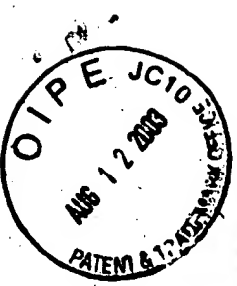
FIG. 4

Microsoft Access - [Commands : Table]

File Edit View Insert Tools Window Help

| Field Name	Data Type	Description
RecNum	AutoNumber	Unique record number
UserID	Text	Userid authorized to issue command
UserIDName	Text	Name of the person owning this Userid
Password	Text	Password of the userid
AuthCode	Text	Authorization code to match before command can be accepted
CommandNumber	Number	A unique number corresponding to a command in the table
CommandPath	Text	Location / path where the command can be found on the host
Host	Text	Host where the command is to be executed

Field Properties

General | Lookup

Field Size	Long Integer
New Values	Increment
Format	
Caption	
Indexed	Yes (No Duplicates)

A field name can be up to 64 characters long, including spaces. Press F1 for help on field names.

Design view. F6 = Switch panes. F1 = Help.

NUM

FIG. 5
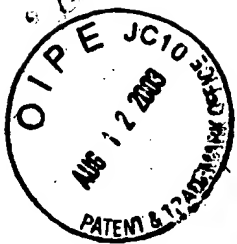
Microsoft Access - [Commands : Table]

File Edit View Insert Format Records Tools Window Help

RecNum	UserID	UserIDNam	Password	AuthCode	CommandNumber	CommandPath	Host
1	544413988	SANJIV	XXXXXXX	987654321			
2	544413988	SANJIV	XXXXXXX	987654321	1	C:\RCE\Diag1.exe	SRV001
3	544413988	SANJIV	XXXXXXX	987654321	2	C:\RCE\Diag2.exe	SRV001
4	544413988	SANJIV	XXXXXXX	987654321	3	C:\RCE\RPTX.exe	SRV002
5	654789922	NEETU	WWWWWW	021234567	4	C:\RCE\Reboot.exe	SRV002
6	654789922	NEETU	WWWWWW	021234567	1	C:\RCE\Diag1.exe	SRV001
7	654789922	NEETU	WWWWWW	021234567	2	C:\RCE\Diag2.exe	SRV001
8	654789922	NEETU	WWWWWW	021234567	3	C:\RCE\RPTX.exe	SRV002
9	256900781	SHIVUM	ABCDEF	223344556	4	C:\RCE\Reboot.exe	SRV002
10	256900781	SHIVUM	ABCDEF	223344556	1	C:\RCE\Diag1.exe	SRV001
11	256900781	SHIVUM	ABCDEF	223344556	2	C:\RCE\Diag2.exe	SRV001
12	256900781	SHIVUM	ABCDEF	223344556	3	C:\RCE\RPTX.exe	SRV002
13	975317680	NEIL	NKAAKN	131284131	4	C:\RCE\Reboot.exe	SRV002
17	975317680	NEIL	NKAAKN	131284131	1	D:\RCE2\Cmd1.exe	SRV001
18	975317680	NEIL	NKAAKN	131284131	2	D:\RCE2\DiagCMD2.e	SRV001
19	975317680	NEIL	NKAAKN	131284131	3	C:\RCE2\Alert.exe	SRV002
(AutoNumber)					4	C:\RCE\Reboot.exe	SRV002
					0		

Record: ◄ ◄ 17 ► ►I ►* of 17

Userid authorized to issue command

NUM

FIG. 6

```
[DTE_Server]
DTE-1_Server=216.87.148.210
Port1=1001,1002
DTE-2_Server=216.87.148.211
Port1=1001,1002
DTE-3_Server=216.87.148.212
Port2=1001,1002
....
....


[Automatic_Escalation]
Escalation_Device_1=Fax
Escalation_Device_2=Email
Escalation_Device_3=Pager
Escalation_Device_4=MobilePhone
Escalation_Device_5=WorkPhone
Escalation_Device_6=PamPilot
Escalation_Device_7=HomePhone
Escalation_Device_8=Future_Device

[IntelligentDecisionMaking]
AutomaticWakeupTimeComputation=ON
AutomaticTimeZoneComputation=ON

[Database]
Database=C:\ape1d2\DTE_Client.mdb

[ProcessRecs]
Retries=3
DelRecs=1
Interval=60

[License]
Key=EMSG0000-BR01K2PSNEK-12/31/2001-11220ENG

[Logging]
Mode=NORMAL

[Reports]
REMail=SamWals2000@yahoo.com
AutoRep=N


.....
.....
```
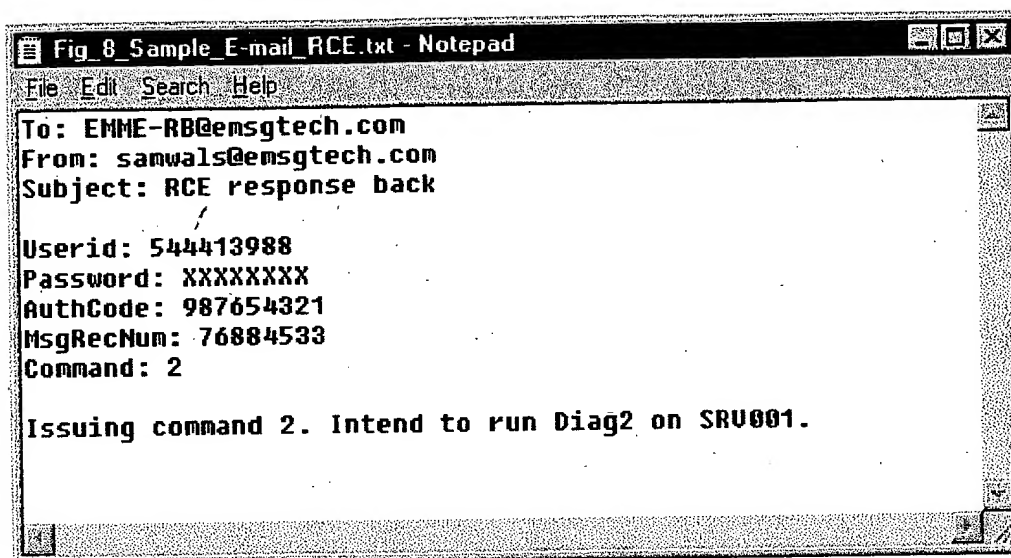
FIG. 7

```
Fig_8_Sample_E-mail_RCE.txt - Notepad
File  Edit  Search  Help

To: EMME-RB@emsgtech.com
From: samwals@emsgtech.com
Subject: RCE response back

Userid: 544413988
Password: XXXXXXXX
AuthCode: 987654321
MsgRecNum: 76884533
Command: 2

Issuing command 2. Intend to run Diag2 on SRU001.
```
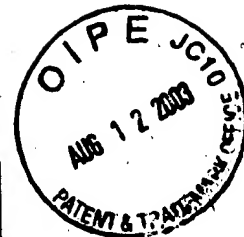
FIG. 8

Microsoft Access - [Directory : Table]

File Edit View Insert Tools Window Help

Field Name	Data Type	Description
RecNum	AutoNumber	A unique record number
UserID	Text	Sender's userid (encripted)
Password	Text	Sender's password (encripted)
AuthCode	Text	Sender's authorization code (encripted)
Group	Text	Name of the group to which this person belongs
MailingADdress	Text	Mailing address
email	Text	Regular e-mail
MP	Text	Mobile Phone
HP	Text	Home Phone
WP	Text	Work Phone
PP	Text	Pager Pin
PMN	Text	Pager Modem Number
PE	Text	Pager e-mail
FN	Text	Fax Number
PPEM	Text	Palm Pilot e-mail
FD1	Text	Future Messaging Device 1
FD2	Text	Future Messaging Device 2
FD3	Text	Future Messaging Device 3

Field Properties

General | Lookup |

Field Size	Long Integer
New Values	Increment
Format	
Caption	
Indexed	Yes (No Duplicates)

The field description is optional. It helps you describe the field and is also displayed in the status bar when you select this field on a form. Press F1 for help on descriptions.

Design view. F6 = Switch panes. F1 = Help.   NUM

FIG. 9

FIG. 10

Utility Personnel

Dig Test Requests

A

Message acceptor / processor and Data Transport Engines DTE-1 and/or DTE-2

B

C

G

Database Tables

F

D

E

VCME-RB Voice Message Response Back Engine

VCME Voice Message Engine

D

E